**HG.1** 

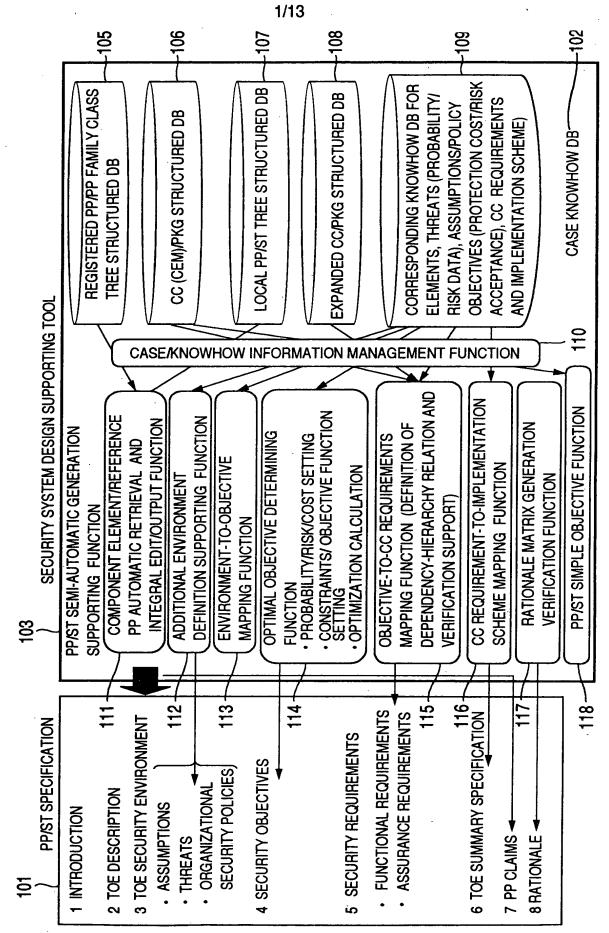
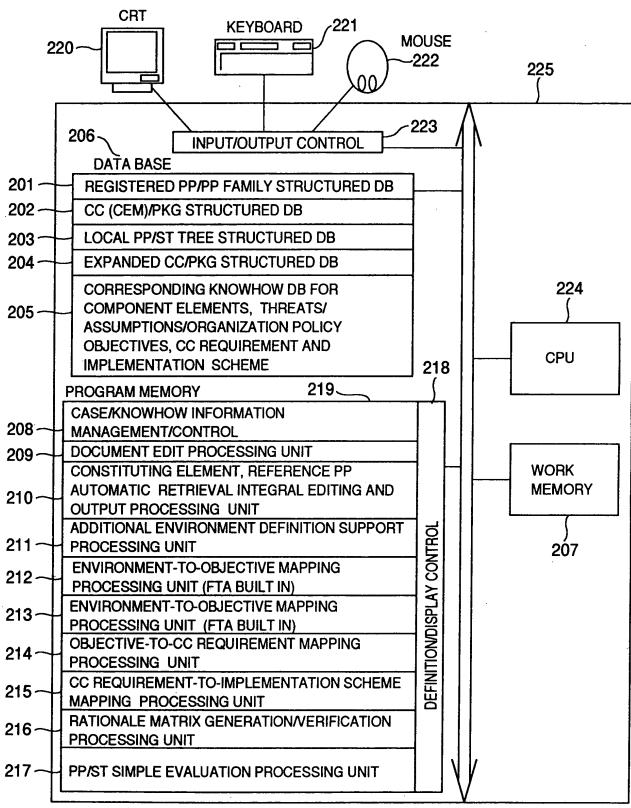




FIG.2



SECURITY SYSTEM DESIGN SUPPORTING TOOL



**START** 

301

SELECT AS A COMPONENT ELEMENT THE REFERENCE REGISTERED AND THE LOCAL REGISTERED PP/ST PART ICONS DISPLAYED IN TREE AS A REFERENCE IN PP/ST TEMPLATE SELECT DIALOG ON DESIGN SUPPORTING TOOL INITIAL SCREEN, AND GENERATE TOE CONFIGURATION DIAGRAM.

RETRIEVE PP/STS OF SELECTED CONSTITUTING ELEMENT FROM DATA-BASE BY DEPRESSING PP/ST TEMPLATE DIALOG SETTING BUTTON, INTEGRALLY EDIT DEFINITION INFORMATION OF PP/ST UNDER EACH CHAPTER AND OUTPUT AND DISPLAY ON DOCUMENT EDIT SCREEN.

302

INTERACTIVELY ADD/CORRECT THE DEFINITION CONTENTS UNDER CHAPTERS 1 TO 3 FOR OUTPUT PT/ST DRAFT BY THE DOCUMENT EDIT FUNCTION, SELECT ADDITIONAL ENVIRONMENT DEFINITION SUPPORT OF TOOL MENU FOR ADDITIONAL CONSTITUTING ELEMENT, RETRIEVE CORRESPONDING CASE PARTS OF CONSTITUTING ELEMENTS OF CORRESPONDING KNOWHOW DB INCLUDING THREATS, ASSUMPTIONS AND ORGANIZATIONAL POLICIES BY DEPRESSING ADDITIONAL CONSTITUTING ELEMENT SETTING BUTTON DISPLAYED AS REFERENCE, AND ADDITIONALLY DEFINE THE DEFINITION CONTENTS OF SECURITY ENVIRONMENT UNDER CHAPTER 3

-303

SELECT ENVIRONMENT-TO-OBJECTIVE MAPPING OF TOOL MENU, MAP THE THREATS/ASSUMPTIONS/ORGANIZATIONAL POLICIES CONSTITUTING THE CONTENTS OF DEFINITION UNDER CHAPTER 3 TO SECURITY OBJECTIVES BY RETRIEVING CORRESPONDING KNOWHOW DB, AND ADDITIONALLY DEFINE DIFFERENCE WITH THE OBJECTIVE DEFINED UNDER CHAPTER 4

-304

SELECT DATA SETTING FOR DETERMINING OPTIMAL OBJECTIVE OF TOOL MENU, CHECK OCCURRENCE PROBABILITY OF THREATS AND AFFECTED LOSS AMOUNT UNDER CHAPTER 3 AND PROTECTION COST VALUE OF SECURITY OBJECTIVE UNDER CHAPTER 4 DISPLAYED AS A DIALOG BY RETRIEVING CORRESPONDING KNOWHOW DB, AND ADDITIONALLY SET NEW THREATS/OBJECTIVES.

-305



SELECT OBJECTIVE OPTIMIZATION CALCULATION FOR DETERMINATION OF OPTIMAL OBJECTIVE OF TOOL MENU, SET CONSTRAINTS AND OBJECTIVE FUNCTION DISPLAYED IN DIALOG, EXECUTE CALCULATION BY DEPRESSING EXECUTION BUTTON, AND AUTOMATICALLY CORRECT DEFINITION CONTENTS OF THREATS UNDER CHAPTER 3 AND OBJECTIVES UNDER CHAPTER 4 CORRESPONDING TO COMBINATION OF SECURITY OBJECTIVE PROVIDING OPTIMAL SOLUTION

306

SELECT OBJECTIVE-TO-CC REQUIREMENT MAPPING AND EAL LEVEL OF TOOL MENU, RETRIEVE CC/PKG STRUCTURED DB, EXPANDED CC/PKG STRUCTURED DB AND CORRESPONDING KNOWHOW DB, SPECIFY CC REQUIREMENTS CORRESPONDING TO OBJECTIVE DEFINED UNDER CHAPTER 4, AND AUTOMATICALLY CORRECT THE CONTENTS OF DEFINITION OF SECURITY REQUIREMENTS UNDER CHAPTER 5

307

PP GENERATED ?
YES
NO

SELECT CC REQUIREMENT-TO-IMPLEMENTATION SCHEME MAPPING OF TOOL MENU, RETRIEVE CORRESPONDING KNOWHOW DB, SPECIFY IMPLEMENTATION SCHEME CORRESPONDING TO CC REQUIREMENTS DEFINED UNDER CHAPTER 5, AND SET DEFINITION CONTENTS OF SYSTEM SUMMARY SPECIFICATION UNDER CHAPTER 6

-309

SELECT RATIONALE MATRIX GENERATION/VERIFICATION OF TOOL MENU,
AUTOMATICALLY GENERATE CORRESPONDING MATRIX TABLE FROM
CORRESPONDENCE BETWEEN ENVIRONMENT, OBJECTIVES, CC REQUIREMENTS
AND IMPLEMENTATION SCHEME UNDER CHAPTERS 3 TO 6 (OR TO CHAPTER 5
FOR PP GENERATION), AND GIVE MESSAGE IF VERIFICATION SHOWS THE
PRESENCE OF INFORMATION LACKING CORRESPONDENCE

-310

SELECT PP/ST SIMPLE EVALUATION OF TOOL MENU, RETRIEVE CC (CEM)/PKG STRUCTURED DB, DISPLAY PP/ST EVALUATION CHECK LIST FOR CEM IN DIALOG, AND CHECK INTERACTIVELY

311

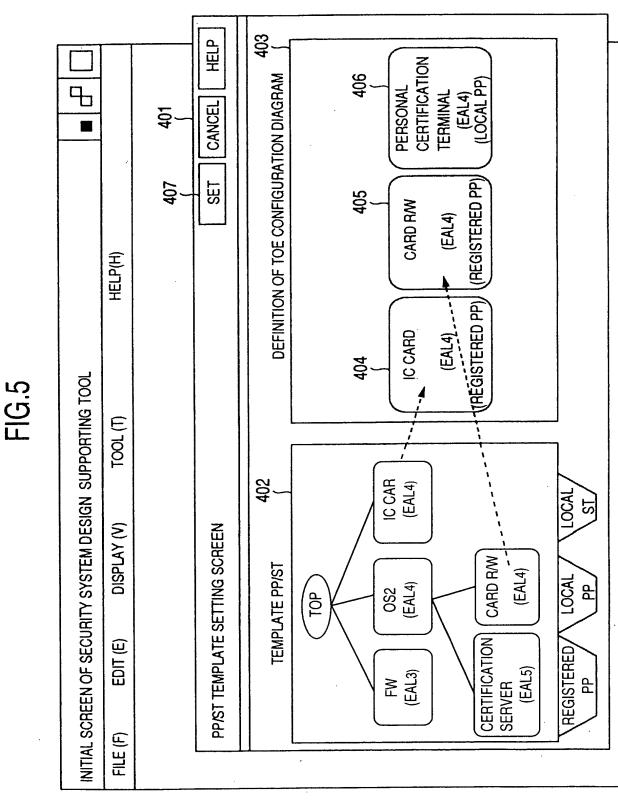
SELECT STORAGE WITH NAME IN FILE MENU, SET NAME, AND REGISTER GENERATED PP/ST IN LOCAL PP/ST STRUCTURED DB

312

END



5/13

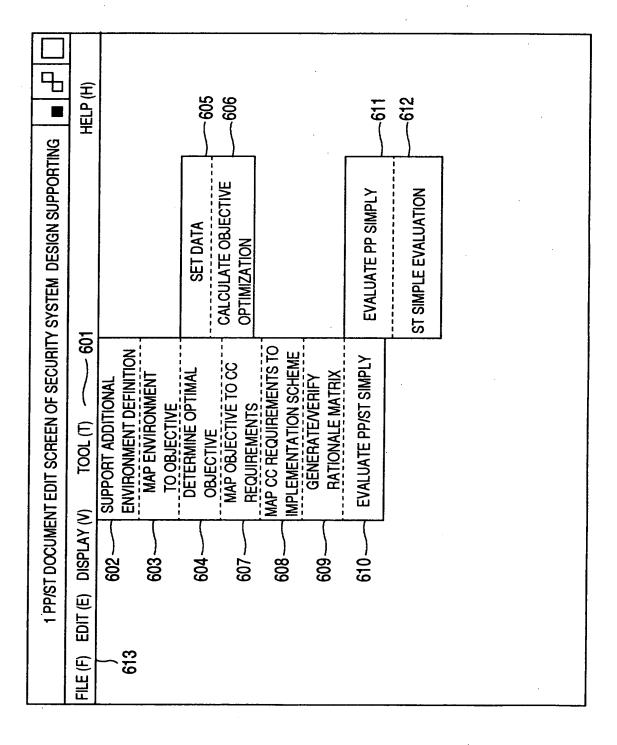




PP/ST DOCUI	MENT EDIT SCR	EEN OF SECURITY 8	SYSTEM DESIGN	PP/ST DOCUMENT EDIT SCREEN OF SECURITY SYSTEM DESIGN SUPPORTING TOOL	501 ■ □	
FILE (F)	EDIT (E)	DISPLAY (V)	T00L (T)	HELP (H)		
CHAPTER 1	CHAPTER 1 INTRODUCTION	Z			·	
ICC-PP: INT	ICC-PP: INTRODUCTION	505				
TERMINAL-F	TERMINAL-PP: INTRODUCTION	NOI				
ICC-PP: TOE OUTLINE	ICC-PP: TOE OUTLINE					
R/W-PP: TOE OUTLINE	E OUTLINE	) - 503			1	
TERMINAL-F	FERMINAL-PP: TOE OUTLINE	·				
CHAPTER 3 SECUR	CHAPTER 3 SECURITY ENVIRONMENT 3.1 ASSUMPTIONS	/IRONMENT				
ICC-PP: AS	ICC-PP: ASSUMPTIONS					
R/W-PP: AS	R/W-PP: ASSUMPTIONS					
TERMINAL-PP 3.2 THREATS	TERMINAL-PP: ASSUMPTIONS 3.2 THREATS	SN				
CHAPTER 7	CHAPTER 7 PP CLAIMS USED					
ICC-PP IDEN	ICC-PP IDENTIFICATION	7504				
CHAPTER 8	K/W-PP IDENTIFICATION CHAPTER 8 RATIONALE	<b>S</b>				





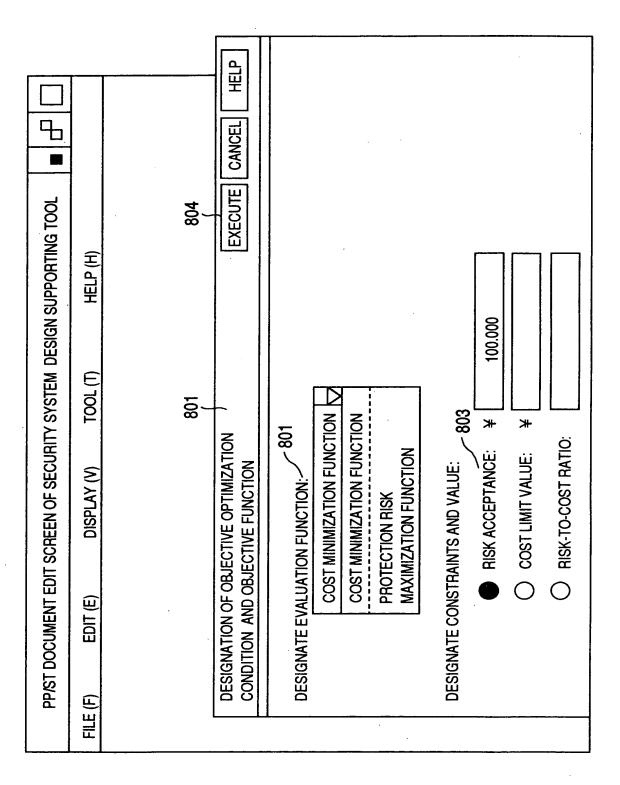


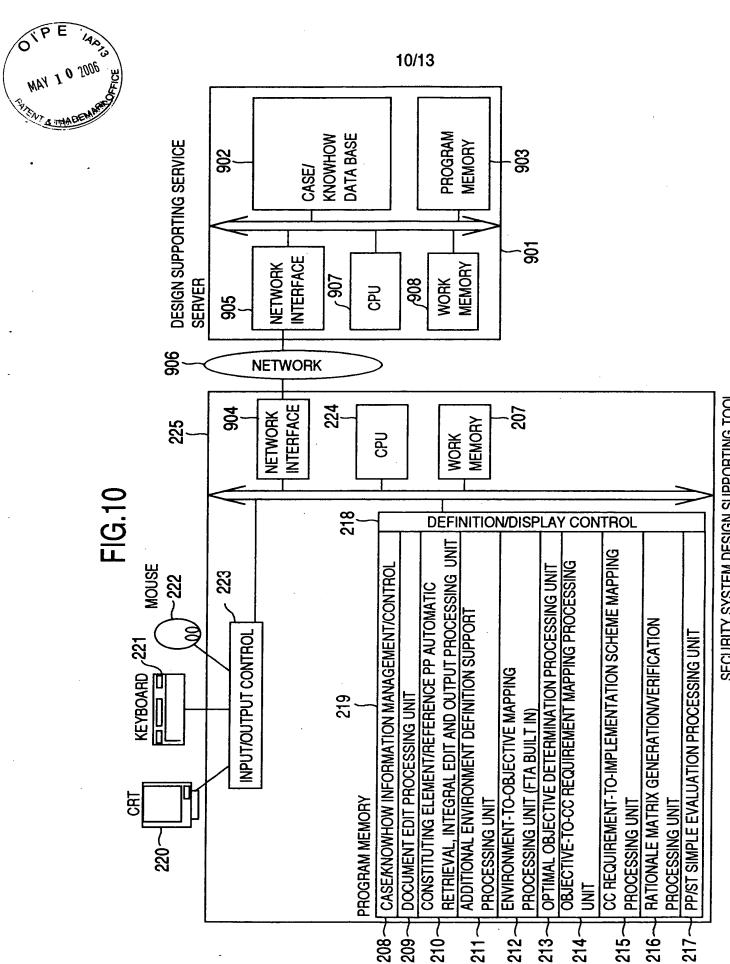
	OIPE 401
	MAY 1 0 2006 B
1/2/2	AT A THADENAME

							733	 			 			
205	OBJECTIVE ENCE TABLE	OBJECTIVES	O-AXX, O-AYY, O-AZZZ	•	О-РХХ,О-РҮҮ	•••	(O-TXX, O-TYY), (O-TZZ)	PROTECTION COST DATA TABLE	PROTECTION COST (YEN)	10,000	CC REQUIREMENTS/IMPLEMENTATION SCHEME CORRESPONDENCE TABLE	IMPLEMENTATION SCHEME	Ydml	
	ENVIRONMENT/OBJECTIVE CORRESPONDENCE TABLE	ENVIRONMENTS	A-XXX	• • •	P-XXX		T-XXX	705 PROTECT	COUNTERMEASURES (OBJECTIVES)	0-TXX	CC REQUIREMENTS/IMPLEN 706 CORRESPONDENCE TABLE	CC FUNCTIONAL REQUIREMENTS	FAU_GEN.1	
•	NDENCE TABLE	TS ORGANIZATIONAL POLICIES	X P-XXX		• • • • •				AFFECTED LOSS AMOUNT (YEN)	1000.000	ENT	REQUIREMENTS	I,FAU_STG.1	
COMPONENT ELEMENT/	6	ELEMENTS ASSUMPTIONS THREATS	A-XXX T-XXX				<b></b>	 THREATS DATA TABLE	PROBABILITY OF OCCURRENCE	0.004	 OBJECTIVE/CC REQUIREMENT CORRESPONDENCE TABLE	CC FUNCTIONAL	FAU_GEN.1	
	COMP 701 ENVIR	ELEMENTS A	CompX	••				704 T	THREATS	T-XXX	OBJE CORI	OBJECTIVES	O-TXX	
	-													

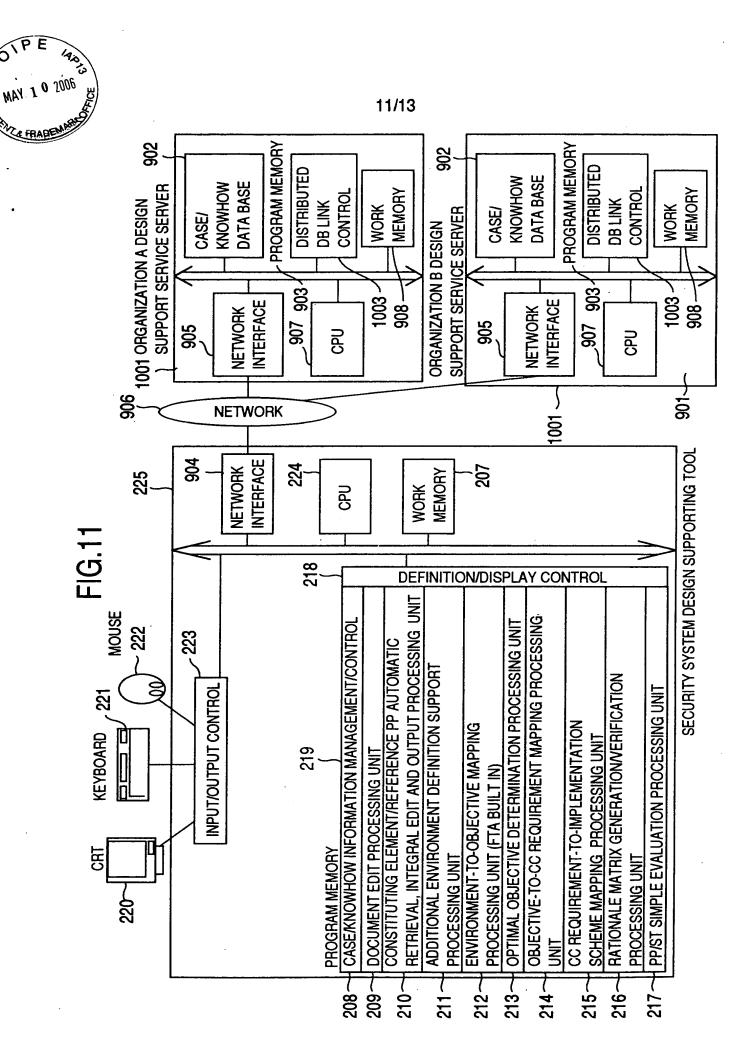


FIG.9

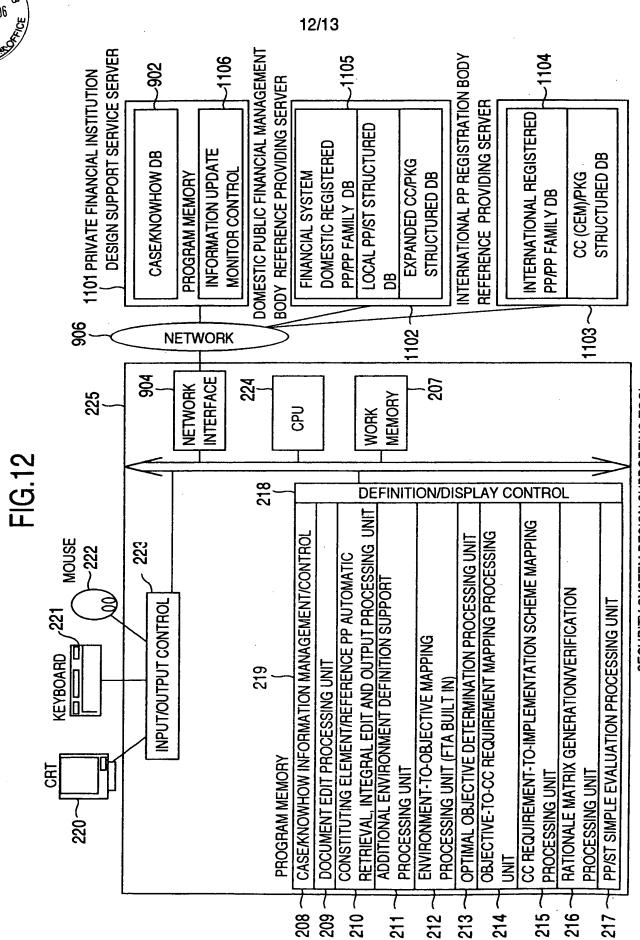




SECURITY SYSTEM DESIGN SUPPORTING TOOL

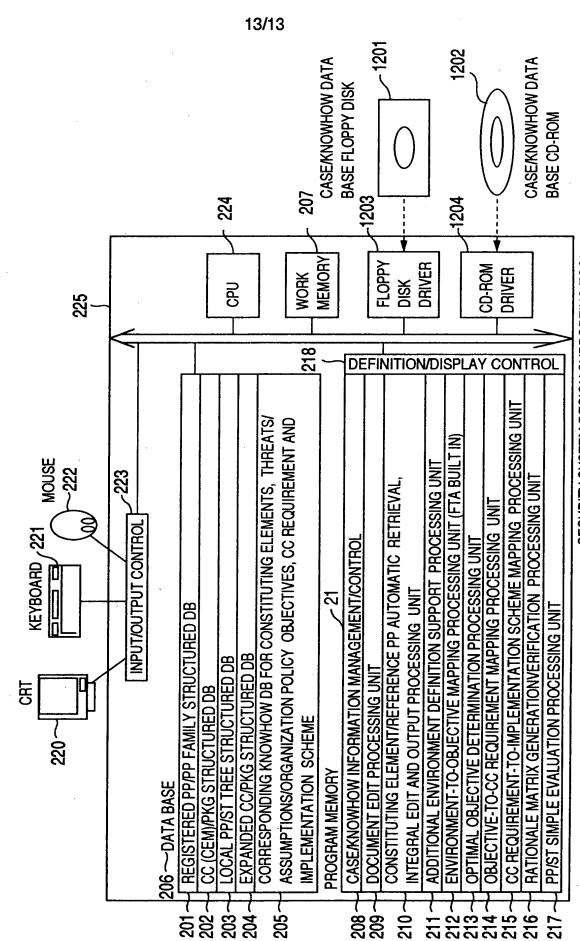






SECURITY SYSTEM DESIGN SUPPORTING TOOL

FIG. 13



SECURITY SYSTEM DESIGN SUPPORTING TOOL